Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Project Division Yelahanka

Name of Work: Improvements to roads and drains in ward no.05 Surrounding area, Byatarayanapura sub division

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Civil Work								
KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1,KPWD SR 2018-19) 8km lead= 57+2.0x1.28x8 =77.48								
CC Drain								
Drain frm Kogilu Mn Rd To Lake	1	324.00	2.30	1.00	745.20			
Rd frm Hajbhavan to Vidhana Soudha Layout	2	265.00	1.10	1.10	641.30			
Oppo. Reva College								
Road-1	2	66.00	1.10	1.00	145.20			
Road-2	2	68.00	1.10	1.00	149.60			
Varasiddi Layout								
2nd Cross	2	82.00	1.10	1.10	198.44			
1st Cross	2	84.00	1.10	1.00	184.80			
Gangadhara House Rd	2	103.00	1.10	1.00	226.60			
Culvert	2	6.00	1.50	1.00	18.00			
					2309.14	**Cum**	**215.28**	**497111.66**
Basic Rate	**130.00**							
AW6%	**7.80**							
Sub Total	**137.80**							
Loading, Unloading& Lead	**77.48**							
Total	**215.28**							
KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18,KPWD SR 2018-19)								
CC Drain								
Drain frm Kogilu Mn Rd To Lake	1	324.0	2.30	0.15	111.78			
Rd frm Hajbhavan to Vidhana Soudha Layout	2	265.00	1.10	0.15	87.45			
Oppo. Reva College								
Road-1	2	66.00	1.10	0.15	21.78			
Road-2	2	68.00	1.10	0.15	22.44			
Varasiddi Layout								
2nd Cross	2	82.00	1.10	0.15	27.06			
1st Cross	2	84.00	1.10	0.15	27.72			
Gangadhara House Rd	2	103.00	1.10	0.15	33.99			
Culvert	2	6.00	1.50	0.15	2.70			
					334.92	**Cum**	**5421.90**	**1815902.75**
Basic Rate	**5115.00**							
AW6%	**306.90**							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Total	**5421.90**							
KSRB 4.9.2 : Providing **T.M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications. Specificatio (I No-28.8.2,P No-229,KPWD SR 2018-19)								
Consider 60Kg/Cum	1	420.84	60.00		25250.40			
Consider 90Kg/Cum	1	466.70	90.00		42003.36			
					67253.76			
					67.25	**Tn**	**72326.98**	**4864261.35**
Basic Rate	**68233.00**							
AW6%	**4093.98**							
Total	**72326.98**							
Providing and laying **plain/reinforced cement concrete** for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)								
Raft								
Rd frm Hajbhavan to Vidhana Soudha Layout	2	265.00	0.90	0.15	71.55			
Oppo. Reva College								
Road-1	2	66.00	0.90	0.15	17.82			
Road-2	2	68.00	0.90	0.15	18.36			
Varasiddi Layout								
2nd Cross	2	82.00	0.90	0.15	22.14			
1st Cross	2	84.00	0.90	0.15	22.68			
Gangadhara House Rd	2	103.00	0.90	0.15	27.81			
Wall								
Rd frm Hajbhavan to Vidhana Soudha Layout	4	265.00	0.15	0.60	95.40			
Oppo. Reva College								
Road-1	4	66.00	0.15	0.60	23.76			
Road-2	4	68.00	0.15	0.60	24.48			
Varasiddi Layout								
2nd Cross	4	82.00	0.15	0.60	29.52			
1st Cross	4	84.00	0.15	0.60	30.24			
Gangadhara House Rd	4	103.00	0.15	0.60	37.08			
					420.84			
SWD Drain								
Drain frm Kogilu Mn Rd To Lake	1	324.0	2.20	0.20	142.56			
Drain Top Slab	1	324.0	1.90	0.20	123.12			
Culvert	2	6.00	1.20	0.23	3.31			
SWD Drain Wall								
Drain frm Kogilu Mn Rd To Lake	2	324.0	0.20	1.50	194.40			
Culvert	4	6.00	0.23	0.60	3.31			
					466.70			
					887.54	**Cum**	**7070.20**	**6275113.59**

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Basic Rate	**6670.00**							
AW6%	**400.20**							
Total	**7070.20**							
Providing and Fixing **pre cast covering Slab** made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
CC **Drain Top Covering Slab**								
Rd frm Hajbhavan to Vidhana Soudha Layout	2	265.00	0.90		477.00			
Oppo. **Reva College**								
Road-1	2	66.00	0.90		118.80			
Road-2	2	68.00	0.90		122.40			
Varasiddi **Layout**								
2nd Cross	2	82.00	0.90		147.60			
1st Cross	2	84.00	0.90		151.20			
Gangadhara House Rd	2	103.00	0.90		185.40			
					1202.40	**Sqm**	**2337.00**	**2810008.80**
Data Rate	**2337.00**							
Providing and Fixing pre cast **covering Slab 250mm thick** made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge ,KPWD SR 2018-19								
Culvert Top Slab	2	6.00	1.20		14.40			
					14.40	**Sqm**	**5418.00**	**78,019.20**
Data Rate	**5418.00**							
KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (1 No-19.14,P No-143,KPWD SR 2018-19)								
Rd frm Hajbhavan to Vidhana Soudha Layout	1	400.00	5.50	0.30	660.00			
Oppo. **Reva College**								
Road-1	1	66.00	5.50	0.30	108.90			
Road-2	1	68.00	5.50	0.30	112.20			
Varasiddi **Layout**								
2nd Cross	1	82.00	5.50	0.30	135.30			
1st Cross	1	84.00	5.50	0.30	138.60			
Paramath House Rd	1	82.00	5.50	0.30	135.30			
Annapoorneswari Nilaya Road	1	80.00	5.50	0.30	132.00			
Vajramuneswara Nilaya Rd	1	78.00	5.50	0.30	128.70			
Gangadhara House Rd	1	103.00	5.50	0.30	169.95			
Sai Meadows Apartement Road	1	50.00	6.00	0.30	90.00			
					1810.95	**Cum**	**63.94**	**115792.14**
Basic Rate	**41.00**							
AW6%	**2.46**							
Sub Total	**43.46**							
Loading, Unloading& Lead	**20.48**							
Total	**63.94**							

Description of Items	No	Length	Width	Depth	Quantity			
KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147,KPWD SR 2018-19)								
Rd frm Hajbhavan to Vidhana Soudha Layout	1	400.00	5.50		2200.00			
Oppo. Reva College								
Road-1	1	66.00	5.50		363.00			
Road-2	1	68.00	5.50		374.00			
Varasiddi Layout					0.00			
2nd Cross	1	82.00	5.50		451.00			
1st Cross	1	84.00	5.50		462.00			
Paramath House Rd	1	82.00	5.50		451.00			
Annapoorneswari Nilaya Road	1	80.00	5.50		440.00			
Vajramuneswara Nilaya Rd	1	78.00	5.50		429.00			
Gangadhara House Rd	1	103.00	5.50		566.50			
Sai Meadows Apartement Road	1	50.00	6.00		300.00			
					6036.50	**Sqm**	**6.36**	**38,392.14**
Basic Rate	**6.00**							
AW 6%	**0.36**							
Total	**6.36**							
Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.(I No-20.5,P No-153,KPWD SR 2018-19)								
Rd frm Hajbhavan to Vidhana Soudha Layout	1	400.00	5.50	0.15	330.00			
Oppo. Reva College								
Road-1	1	66.00	5.50	0.15	54.45			
Road-2	1	68.00	5.50	0.15	56.10			
Varasiddi Layout								
2nd Cross	1	82.00	5.50	0.15	67.65			
1st Cross	1	84.00	5.50	0.15	69.30			
Paramath House Rd	1	82.00	5.50	0.15	67.65			
Annapoorneswari Nilaya Road	1	80.00	5.50	0.15	66.00			
Vajramuneswara Nilaya Rd	1	78.00	5.50	0.15	64.35			
Gangadhara House Rd	1	103.00	5.50	0.15	84.98			
Sai Meadows Apartement Road	1	50.00	6.00	0.15	45.00			
					905.48	**Cum**	**1994.92**	**180635**
Basic Rate	**1882.00**							
AW 6%	**112.92**							
Total	**1994.92**							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	
KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18,KPWD SR 2018-19)								
Rd frm Hajbhavan to Vidhana Soudha Layout	1	400.00	5.50	0.225	495.00			
Oppo. Reva College								
Road-1	1	66.00	5.50	0.225	81.68			
Road-2	1	68.00	5.50	0.225	84.15			
Varasiddi Layout								
2nd Cross	1	82.00	5.50	0.225	101.48			
1st Cross	1	84.00	5.50	0.225	103.95			
Paramath House Rd	1	82.00	5.50	0.225	101.48			
Annapoorneswari Nilaya Road	1	80.00	5.50	0.225	99.00			
Vajramuneswara Nilaya Rd	1	78.00	5.50	0.225	96.53			
Gangadhara House Rd	1	103.00	5.50	0.225	127.46			
Sai Meadows Apartement Road	1	50.00	6.00	0.225	67.50			
					1358.21	**Cum**	**2001.28**	**2718163.51**
Basic Rate	**1888.00**							
AW 6%	**113.28**							
Total	**2001.28**							
KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6,KPWD SR 2018-19)Issue rate Dated -01-07-2020								
Rd frm Hajbhavan to Vidhana Soudha Layout	1	400.00	5.50		2200.00			
Oppo. Reva College								
Road-1	1	66.00	5.50		363.00			
Road-2	1	68.00	5.50		374.00			
Varasiddi Layout								
2nd Cross	1	82.00	5.50		451.00			
1st Cross	1	84.00	5.50		462.00			
Paramath House Rd	1	82.00	5.50		451.00			
Annapoorneswari Nilaya Road	1	80.00	5.50		440.00			
Vajramuneswara Nilaya Rd	1	78.00	5.50		429.00			
Gangadhara House Rd	1	103.00	5.50		566.50			
Sai Meadows Apartement Road	1	50.00	6.00		300.00			
					6036.50	**Sqm**	**29.68**	**179163.32**
Basic Rate	**28.00**							
AW 6%	**1.68**							
Total	**29.68**							
KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7,KPWD SR 2018-19)Issue rate Dated -01-07-2020								

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Rd frm Hajbhavan to Vidhana Soudha Layout	1	400.00	5.50		2200.00			
Oppo. Reva College								
Road-1	1	66.00	5.50		363.00			
Road-2	1	68.00	5.50		374.00			
Varasiddi Layout								
2nd Cross	1	82.00	5.50		451.00			
1st Cross	1	84.00	5.50		462.00			
Paramath House Rd	1	82.00	5.50		451.00			
Annapoorneswari Nilaya Road	1	80.00	5.50		440.00			
Vajramuneswara Nilaya Rd	1	78.00	5.50		429.00			
Gangadhara House Rd	1	103.00	5.50		566.50			
Sai Meadows Apartement Road	1	50.00	6.00		300.00			
					6036.50	**Sqm**	**12.72**	**76,784.28**
Basic Rate	**12.00**							
AW 6%	**0.72**							
Total	**12.72**							
KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6,KPWD SR 2018-19) Issue rate Dated -01-07-2020								
Rd frm Hajbhavan to Vidhana Soudha Layout	1	400.00	5.50	0.05	110.00			
Oppo. Reva College								
Road-1	1	66.00	5.50	0.05	18.15			
Road-2	1	68.00	5.50	0.05	18.70			
Varasiddi Layout								
2nd Cross	1	82.00	5.50	0.05	22.55			
1st Cross	1	84.00	5.50	0.05	23.10			
Paramath House Rd	1	82.00	5.50	0.05	22.55			
Annapoorneswari Nilaya Road	1	80.00	5.50	0.05	22.00			
Vajramuneswara Nilaya Rd	1	78.00	5.50	0.05	21.45			
Gangadhara House Rd	1	103.00	5.50	0.05	28.33			
Sai Meadows Apartement Road	1	50.00	6.00	0.05	15.00			
					301.83	**Cum**	**6407.70**	**1934004.05**
Basic Rate	**6045.00**							
AW 6%	**362.70**							
Total	**6407.70**							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Providing and laying **bituminous concrete** 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (P.No-171,I No-21.78.12,KPWD SR 2018-19) Issue rate Dated -01-07-2020								
Rd frm Hajbhavan to Vidhana Soudha Layout	1	400.00	5.50	0.04	88.00			
Oppo. Reva College								
Road-1	1	66.00	5.50	0.04	14.52			
Road-2	1	68.00	5.50	0.04	14.96			
Varasiddi Layout								
2nd Cross	1	82.00	5.50	0.04	18.04			
1st Cross	1	84.00	5.50	0.04	18.48			
Paramath House Rd	1	82.00	5.50	0.04	18.04			
Annapoorneswari Nilaya Road	1	80.00	5.50	0.04	17.60			
Vajramuneswara Nilaya Rd	1	78.00	5.50	0.04	17.16			
Gangadhara House Rd	1	103.00	5.50	0.04	22.66			
Sai Meadows Apartement Road	1	50.00	6.00	0.04	12.00			
					241.46	**Cum**	**7537.66**	**1820043.38**
Basic Rate	**7111.00**							
AW 6%	**426.66**							
Total	**7537.66**							
KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15,KPWD SR 2018-19)								
Rd frm Hajbhavan to Vidhana Soudha Layout	2	400.00	0.10		80.00			
Oppo. Reva College								
Road-1	2	66.00	0.10		13.20			
Road-2	2	68.00	0.10		13.60			
Varasiddi Layout								
2nd Cross	2	82.00	0.10		16.40			
1st Cross	2	84.00	0.10		16.80			
Paramath House Rd	2	82.00	0.10		16.40			
Annapoorneswari Nilaya Road	2	80.00	0.10		16.00			
Vajramuneswara Nilaya Rd	2	78.00	0.10		15.60			
Gangadhara House Rd	2	103.00	0.10		20.60			
Sai Meadows Apartement Road	2	50.00	0.10		10.00			
					218.60	**Sqm**	**454.74**	**99,406.16**
Basic Rate	**429.00**							
AW 6%	**25.74**							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Total	454.74							
							Total Construction Cost	25128516.53
							Towards GST 12%	3015421.98
							Tender Premium	1256425.83
							Towards DPR & PMC Cost	599000.00
							Sub Total	29999364.34
							Utility Shifting,Miscellaneous and Rounding off	635.66
							GRAND TOTAL	30000000.00

Technical Sanction
Accorded For Rs 300 lakhs only
Head of A/C P3801
CER NO: 76 Dt: 10.08.2020

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019, Data Rates and Issue rates 01-07-2020

Assistant Engineer
Ward No-05
BBMP Bangalore

Asst. Executive Engineer,
Project Division Yelahanka
BBMP Bangalore

Executive Engineer,
Project Division Yelahanka
BBMP Bangalore

Administrative Approval

Accorded For Rs. 300.00 lakhs
Head of A/C P3801
CER NO : 58 Dt: 04/12/2020

E.E. (Project)